

OBLON ET AL (703) 413-3000

DOCKET # 192863450 PCT SHEET 1 OF 28

09/555529

WO 99/29845

PCT/FR98/02667

1/28

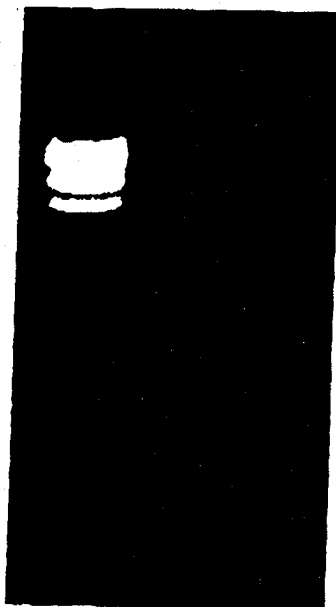
Fragment  
size  
(bp)

A B C

23130  
9416  
6557  
4361

2322  
2027

564



← 1000

FIGURE 1

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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DOCKET # 192863450 PL SHEET 2 OF 2

**PCT/FR98/02667**

16 10 1997 16 00	10	20	30	40	50	60	70	80	90	100
hsKin17.pap	HKSDFLTPK AIANRIKSG LQKLWYQW CQKQCRDENG FKCHMSHSH QRLLLASEN PQQFMDYFSE EFRNDFLELL RRRECTKRVH NNIVVNEYIS									
hsKin17.pap	HKSDFLSPK AIANRIKSG LQKLWYQW CQKQCRDENG FKCHMSHSH QRLLLASEN PQQFMDYFSE EFRNDFLELL RRRECTKRVH NNIVVNEYIS									
hsKin17.pap	110	120	130	140	150	160	170	180	190	200
hsKin17.pap	HREHMMNAT QWETLTDFTK WLGREGCKV DETPKGWYIQ YIDRDPETIR ROLELEKXKX QDLDDDEKTA KFIEQVRRG LECKEQEPTV FTLSRENEE									
hsKin17.pap	HREHMMNAT QWETLTDFTK WLGREGCKV DETPKGWYIQ YIDRDPETIR ROLELEKXKX QDLDDDEKTA KFIEQVRRG LECKEQEPTV FTLSRENEE									
hsKin17.pap	210	220	230	240	250	260	270	280	290	300
hsKin17.pap	EKVTFNLKSG ACSSGATSS KSSTLGPAL KTIGSSASVK RKSSQSSTQ SKEKXKXKSA LDEIMEIEEE KKRTARTDYM LQPEITUVKII TKKLGEKXKX									
hsKin17.pap	EKVTFNLKSG AGCSAGATTS KSSSLGPSAL KLLGSAASGK RKSSQS QAPAKKXSA LDEIMEIEEE KKRTARTDYM LQPEITUVKII TKKLGEKXKX									
hsKin17.pap	310	320	330	340	350	360	370	380	390	400
hsKin17.pap	KKAIVKEVID KYTAVVKMID SGDRLKLDQT HLETVIPAPG KRILVLNGGY RONEGTLESII NEKTFSATIV IETGPLKGRR VEGIQYEDIS KLA									
hsKin17.pap	KKGWKEVID KYTAVVKMID SGDRLKLDQT HLETVIPAPG KRILVLNGGY RONEGTLESII NEKTFSATIV IETGPLKGRR VEGIQYEDIS KLA									
hsKin17.pap	410	420	430	440	450	460	470	480	490	500
hsKin17.pap	KKAIVKEVID KYTAVVKMID SGDRLKLDQT HLETVIPAPG KRILVLNGGY RONEGTLESII NEKTFSATIV IETGPLKGRR VEGIQYEDIS KLA									
hsKin17.pap	KKGWKEVID KYTAVVKMID SGDRLKLDQT HLETVIPAPG KRILVLNGGY RONEGTLESII NEKTFSATIV IETGPLKGRR VEGIQYEDIS KLA									

**FIGURE 2A**

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

OBLON ET AL (703) 413-3000

DOCKET # 1928634 DP SHEET 3 OF 28

09/555529

WO 99/29845

PCT/FR98/02667

3/28

hsKin17-mmKin17	16	10	1997	15	59		10	20	30	40	50	60	70	80	90	100
hsKin17.seq	TGATTGAGC TGGTACCG GGGATCCGAT TAGAAAGTGA TCCGTGCCCT GGTGCCCATG GGGAGTCCG ATTTTCTTAC TCCCAAGCCT ATCGCCAACA															
mmKin17.seq	ATG GGCAGCTGG ATTUCTGAG CCCCAAGGCC ATCGCCAATA															
hsKin17.seq	GGATCAAGTC CAAGGGCTG CAGAAGCTAC CTTGTATTG CCAGATGTGC CAGAAGCAGT GCCGGGACGA GAATGGCTTT AAGTGTCAAT GTATGTCCGA															
mmKin17.seq	GAATTAAAGTC CAAGGGCTC CAGAAGCTC GCTGTACTG CCAGATGTGC CAGAAGCAAT GCCGGGACGA GAATGGCTTT AAGTGTCACT GTATGTCTGA															
hsKin17.seq	ATCTCATCAG AGACAACCTAT TGTGTGCTTC AGAAATCTCT CAGCAGTTTA TGGATTATTT TTCAGAGGAA TTCGGAATG ACTTCTCTAGA ACTTCTCAGG															
mmKin17.seq	ATCTCATCAA AGACAACCTGT TGTGTGCTTC AGAAACCTCT CAGCAGTTTA TGGATTATTT TTCAGAGGAA TTCGGAATG ACTTCTCTGA ACTTCTGAGG															
hsKin17.seq	AGACCCCTTG GCACTAAAG GGTCCCAAC ACATTTGTCT ACACCAATA CATCAGCCAC CGAGAGCACA TCCACATGAA TGCACACTCAG TCGGAAACTC															
mmKin17.seq	CGACGCCTTG GCACTAAAG GGTCCCAAC ACATTTGTCT ACATGAATTA CATCAGCCAC CGAGAGCACA TCCACATGAA CGCTACCCAG TGGAGAGAC															
hsKin17.seq	TBACTGATTT TACTAAGTGG CTGGCCAGAG AAGGCTTGTG CAAGTGGAC GAGACACCAA AAGGCTGTGA TATTCAGTAC ATAGACAGGG ACCAGAAAC															
mmKin17.seq	TBAACGACTT TACCAAGTGG CTGGCCAGAG AAGGCTTGTG TAAAGTGTGAT GAGACACCAA AAGGCTGTGA CATTCAGTAC ATAGACAGAG ACCAGAAAC															

FIGURE 2B

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

OBLON ET AL (703) 413-3000

DOCKET # 192862450 PCT SHEET 4 OF

09/555529

WO 99/29845

PCT/FR98/02667

4/28

hsKin17.seq	510	520	530	540	550	560	570	580	590	600
	TATCGCCGG	CAACTGGAC	TGGAGAAAA	GAAAAAGCAG	GACCTTGATG	ATGAAGAAA	AACGGCLAA	TTTATTGAAG	AGCAAGTGAG	AAGAGGCTG
mmKin17.seq										
	CATCCGTCGG	CAACTGGAT	TAGAAAAA	GNAGAGCAA	GATCTGGACG	ATGAAGAAA	AACGGCCCAAG	TTCAATTGAGG	AGCAGGTCAG	AAGAGGCTG
hsKin17.seq	610	620	630	640	650	660	670	680	690	700
	GAAGGAAAG	AACAGGAGCT	CCCTACTTTT	ACGGAATTAA	GCAGAGAAA	TCATGAAGAG	AAAGTCACGT	TTAATTGAG	TAAAGGAGCA	TGTAGCTCAT
mmKin17.seq										
	GAAGGAAAG	AGCAGGAGAC	ACCTGTTTTT	ACAGAACTTA	GCCGAGAAA	TCAGGAAGAA	AAAGTTACGT	TCATTTGAA	TAAAGGAGCG	GCTGGGCTCAG
hsKin17.seq	710	720	730	740	750	760	770	780	790	800
	CCGAGGCAAC	ATCTTCCAG	TCAGTACTC	TGGGACCGAG	TGCACCTGAG	ACGATAGGAA	GTTCAAGCATC	AGTGAACCA	AAAGATCTT	CCCAGAGCTC
mmKin17.seq										
	CCGAGGCTAC	AACATCCAAG	TCAGCTCTT	TGGGACCAAG	TGCACCTGAG	CTGCTGGGA	GCCGACCATC	CCGGAACCG	AAAGATCTT	CACAGAGCTC

FIGURE 2B (continued)

OBLON ET AL (703) 413-3000

DOCKET #192863450PC7 SHEET 5 OF 5

09/555529

**PCT/FR98/02667**

**WO 99/29845**

5/28

Variable	Mean	Standard Deviation	Minimum	Maximum
Age	34.5	10.2	21	55
Gender	0.5	0.5	0	1
Marital Status	0.7	0.5	0	1
Education	12.5	1.5	9	16
Income	15000	5000	5000	30000
Health	0.8	0.4	0	1
Smoking	0.3	0.5	0	1
Alcohol	0.2	0.4	0	1
Exercise	0.6	0.5	0	1
Stress	0.7	0.5	0	1
Depression	0.4	0.5	0	1
Loneliness	0.5	0.5	0	1
Life Satisfaction	0.6	0.5	0	1
Quality of Life	0.7	0.5	0	1
Overall Health	0.8	0.4	0	1
Physical Health	0.9	0.3	0	1
Mental Health	0.7	0.5	0	1
Social Health	0.6	0.5	0	1
Emotional Health	0.5	0.5	0	1
Behavioral Health	0.4	0.5	0	1
Environmental Health	0.3	0.5	0	1
Occupational Health	0.2	0.4	0	1
Financial Health	0.1	0.3	0	1
Family Health	0.0	0.2	0	1
Community Health	0.0	0.1	0	1
National Health	0.0	0.0	0	1
Global Health	0.0	0.0	0	1

[illegible]

**FIGURE 2B**  
(continued)

OBLON ET AL (703) 413-3000

DOCKET # 192863450 PCT SHEET 6 OF 20

09/555529

WO 99/29845

PCT/FR98/02667

6/28

A

Kin-17

heart  
brain  
placenta  
lung  
liver  
skeletal muscle  
kidney  
pancreas

spleen  
thymus  
prostate  
testicle  
ovary  
small intestine  
colon  
peripheral blood leukocyte

 $\beta$  Actin

FIGURE 3A

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

WO 99/29845

OBLON ET AL (703) 413-3000

DOCKET # 192863 USD PCT SHEET 70

09/555529

PCT/FR98/02667

7/28

B

HL-60  
Hela S3  
K-562  
Molt-4  
Raji  
SW480  
A 549  
G 361

*Kin-17*



$\beta$  Actin



FIGURE 3B

REPLACEMENT SHEET (RULE 26)

004220 6255560

OBLON ET AL (703) 413-3000

DOCKET #192843450PCT SHEET 8 OF 20

09/555529

WO 99/29845

PCT/FR98/02667

8/28

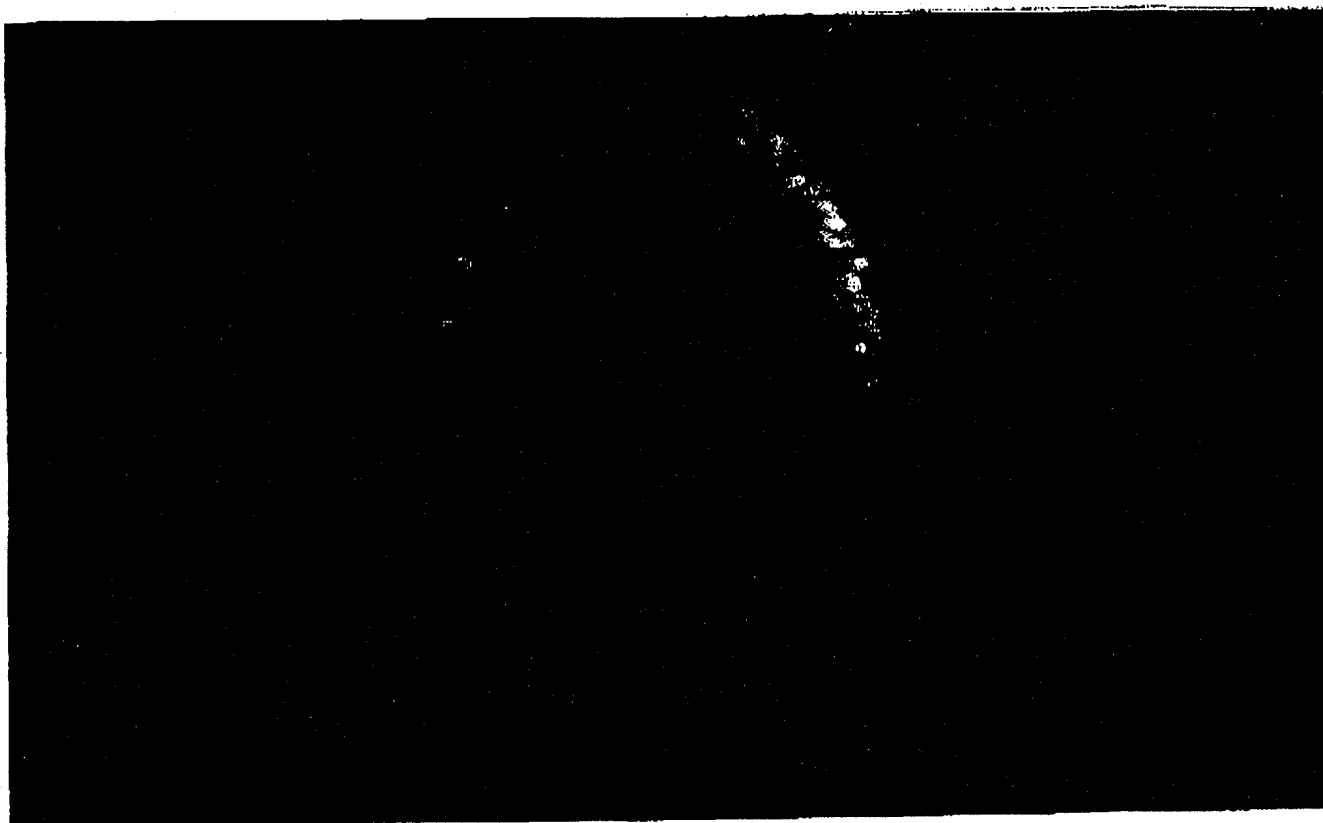


FIGURE 4A

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

DOCKET # 92863650 PCT SHEET 9 OF 10

09/555529

PCT/FR98/02667

WO 99/29845

9/28

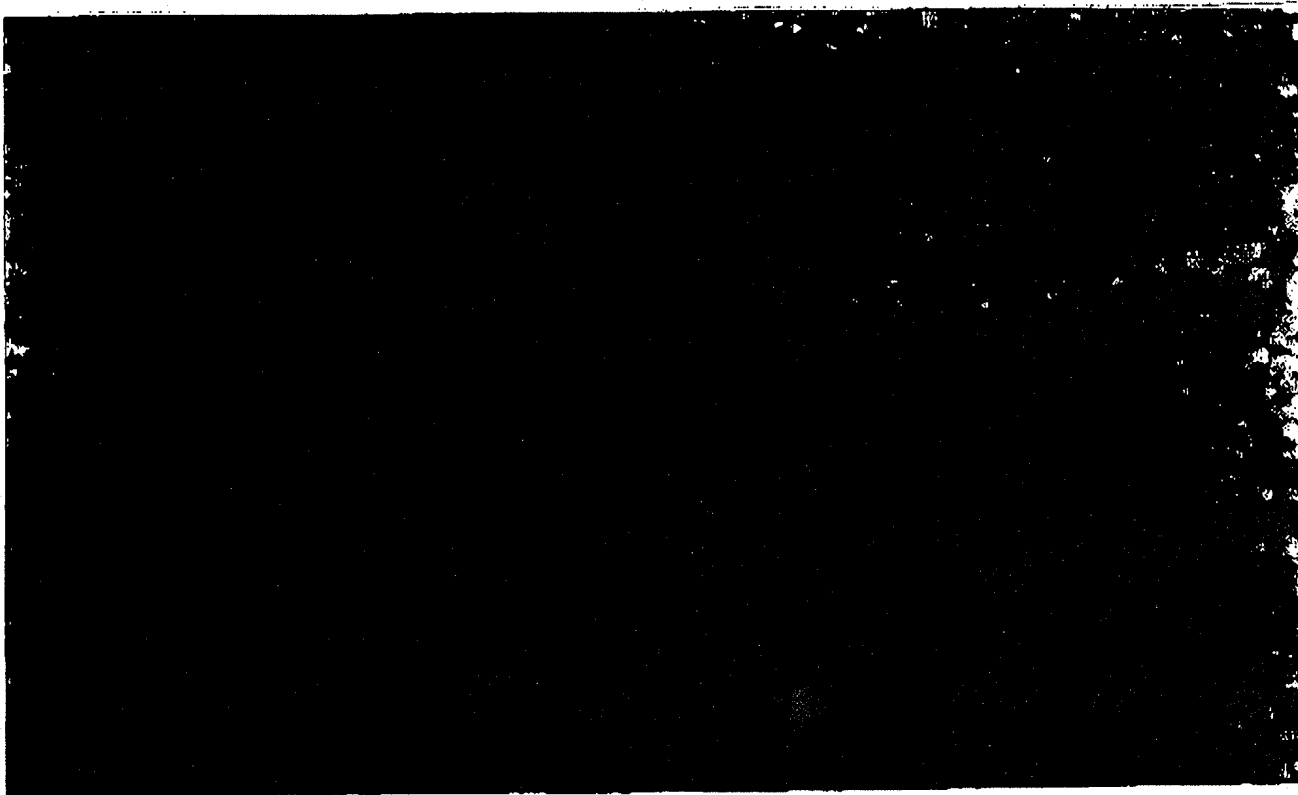


FIGURE 4B

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

DOCKET # 192863450Pc SHEET 10 OF 28

09/555529

WO 99/29845

PCT/FR98/02667

10 / 28

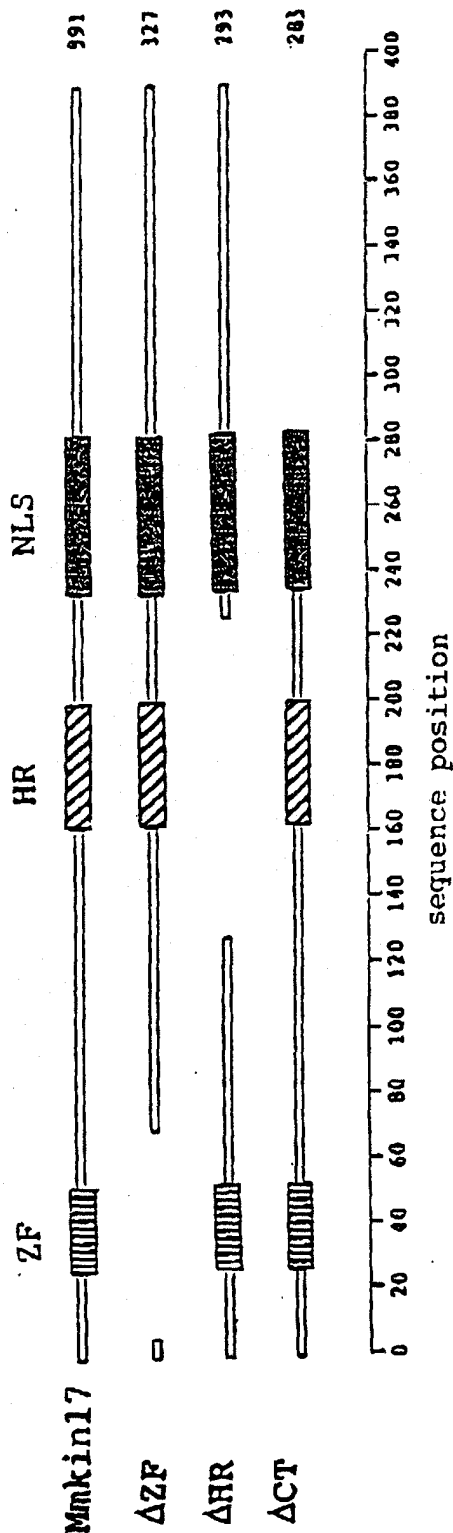


FIGURE 5

OBLON ET AL (703) 413-3000

DOCKET # 19286345 OFCT SHEET 11 OF 2

09/555529

WO 99/29845

PCT/FR98/02667

11/28

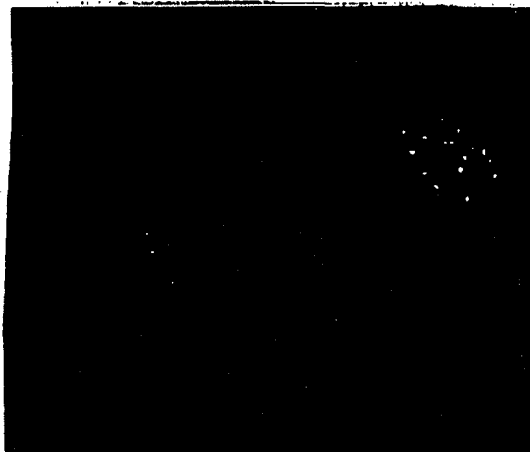


FIGURE 6A

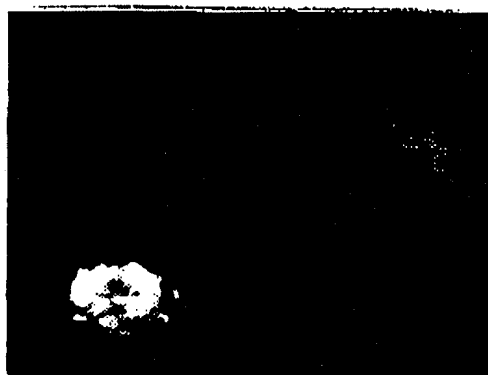


FIGURE 6B

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

DOCKET # 192869450 PCT SHEET 12 OF 12

09/555529

WO 99/29845

12/28

PCT/FR98/02667

004240" 62555560

FIGURE 7B

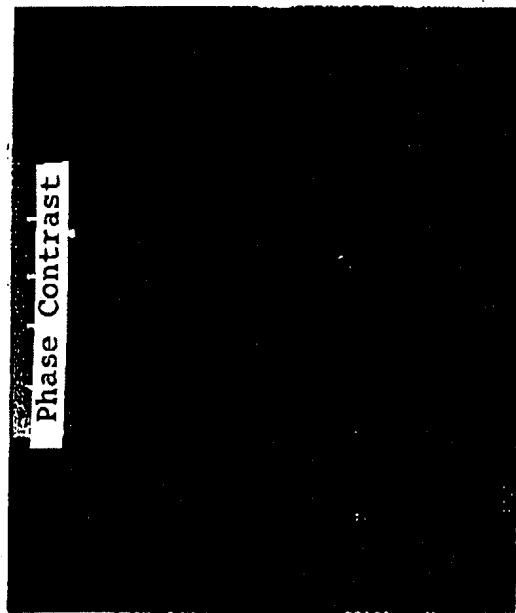
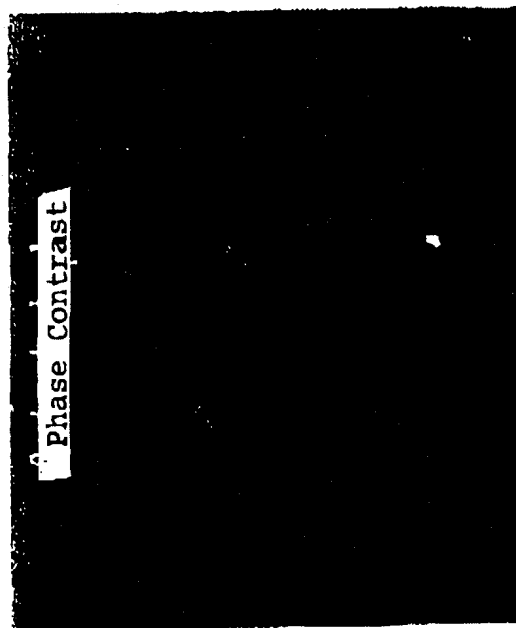
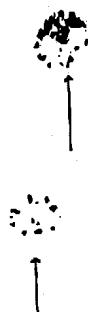


FIGURE 7A



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Received Time Jun. 6. 10:01AM

**Abstract-RecA**

**DAPI**

**Phase Contrast**

FIGURE 8A

REPLACEMENT SHEET (RULE 26)

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09/555529

WO 99/29845

OBLON ET AL (703) 413-3000

DOCKET # 19286348 PC SHEET 14 OF 2

PCT/FR98/02667

14/28

**PA12864**

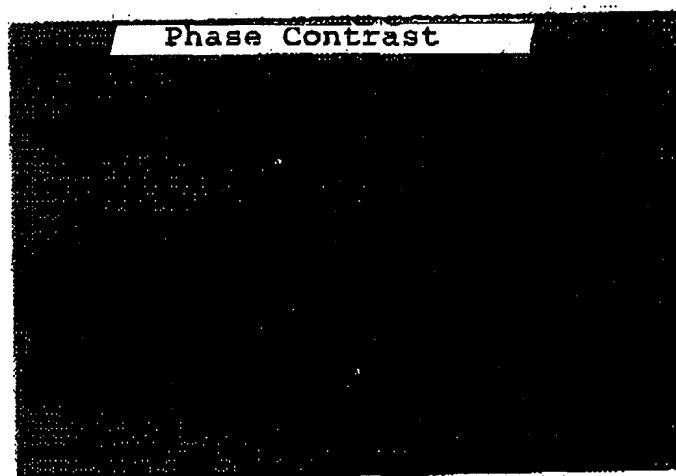
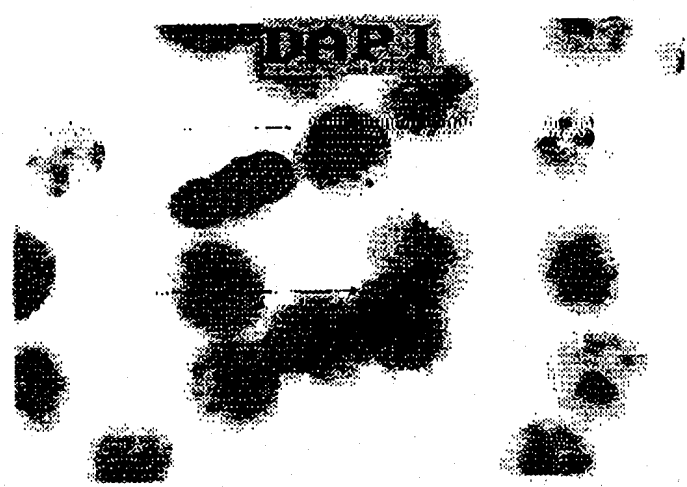
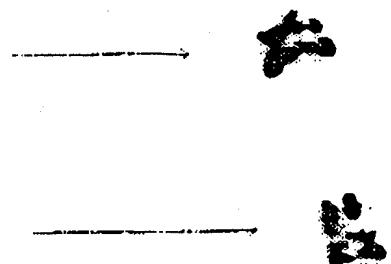


FIGURE 8B

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

DOCKET # 192863450 PCT SHEET 15 OF 2

09/555529

PCT/FR98/02667

WO 99/29845

15/28

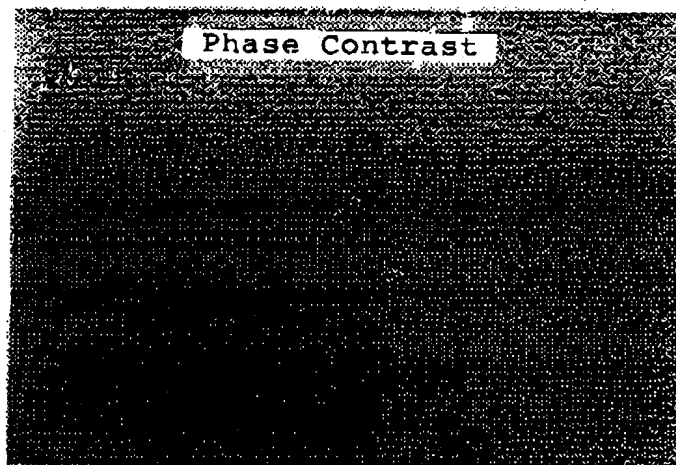
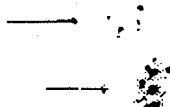


FIGURE 9

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

DOCKET # 19286345 OPLT SHEET 16 OF 2

09/555529

WO 99/29845

PCT/FR98/02667

16/28

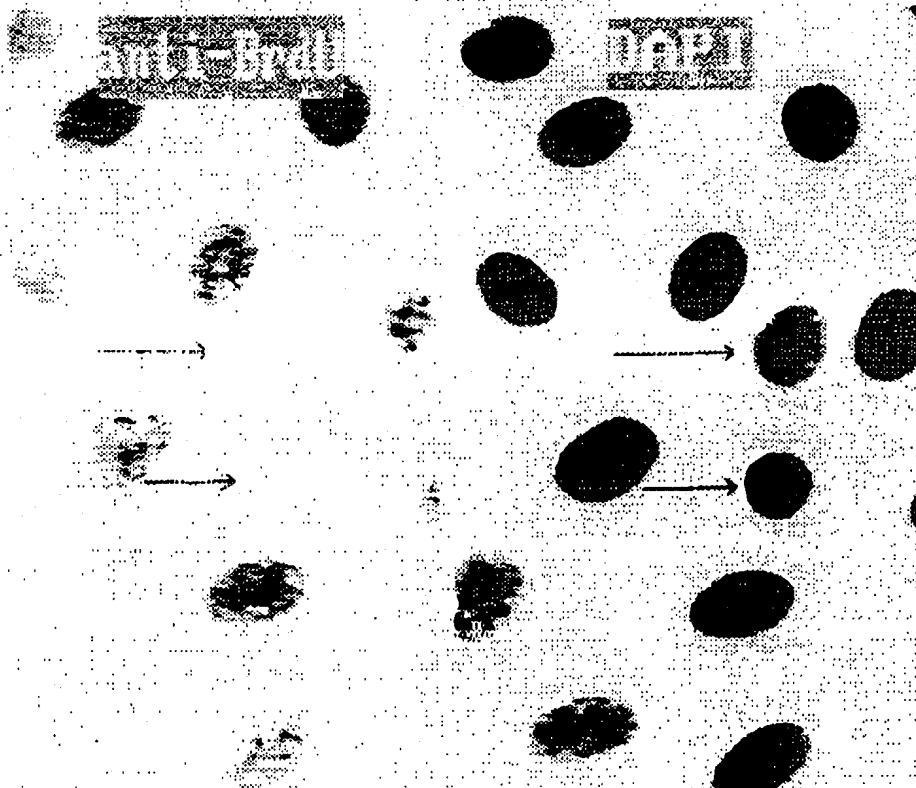


FIGURE 10A

REPLACEMENT SHEET (RULE 26)

0955529-072400



OBLON ET AL (703) 413-3000

DOCKET # 192863450 PCT SHEET 17 OF 17

WO 99/29845

09/555529

PCT/FR98/02667

17/28

Protein expressed	none	kin17		kinΔHR	kinΔCT
		low level	high level		
8 of cells replicating their DNA.	40	40	0	0	33

FIGURE 10B

004220" 62555500

OBLON ET AL (703) 413-3000

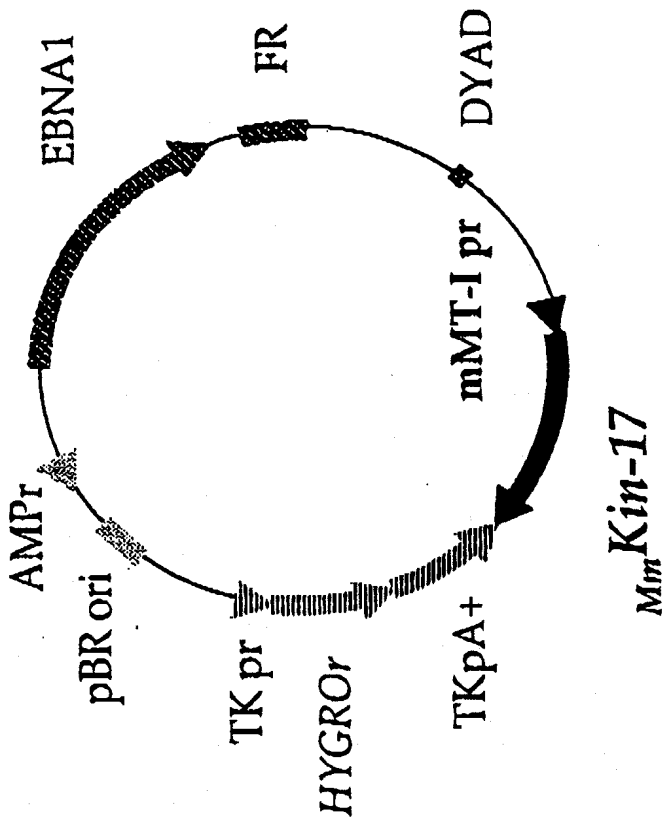
DOCKET # 192863450 PCT SHEET 18 OF 2

09/555529

WO 99/29845

PCT/FR98/02667

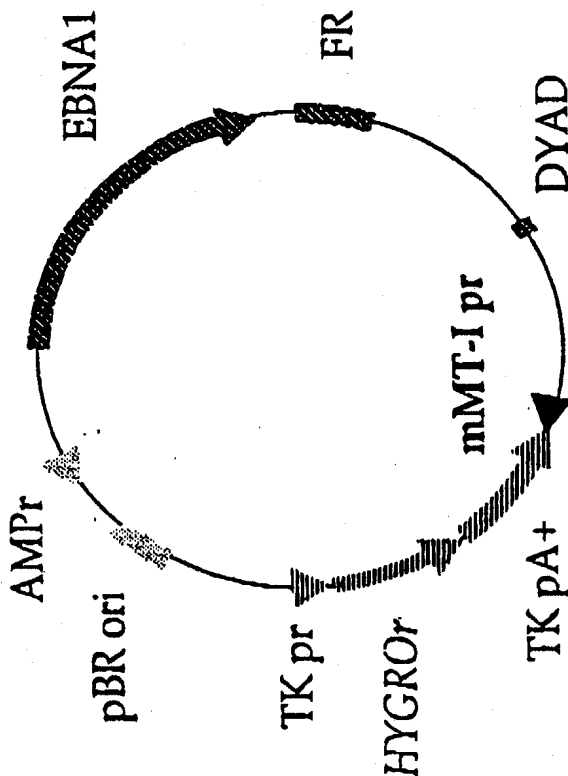
18/28



pEBVMT<sub>Mm</sub> Kin17 (pB223)

(10271 bp)

FIGURE 11B



pEBVMTΔ (pB220)

(8824 bp)

FIGURE 11A

004240 62555560

OBLON ET AL (703) 413-3000

DOCKET # 192863450 PCT SHEET 19 OF 28

WO 99/29845

09/555529

PCT/FR98/02667

19/28

FIGURE 12A

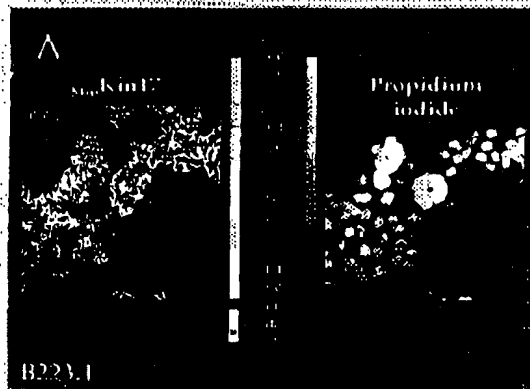


FIGURE 12B

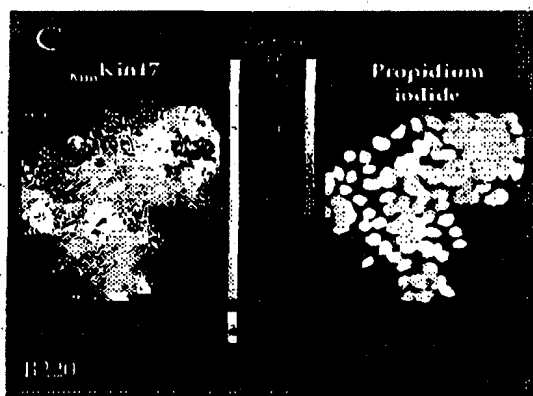
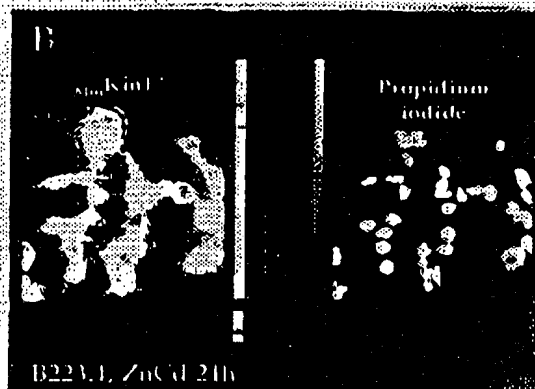


FIGURE 12C

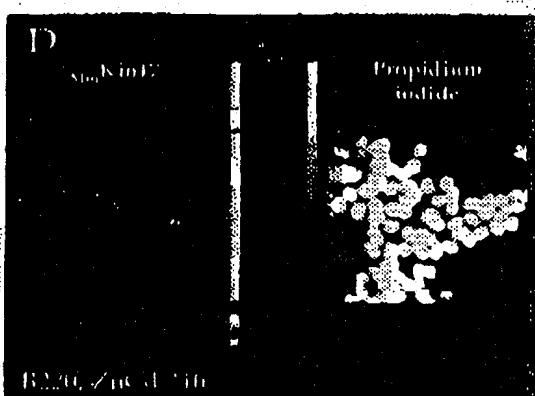


FIGURE 12D

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Received Time Jun. 6. 10:01AM

OBLON ET AL (703) 413-3000

DOCKET # 192863 (SOPCT) SHEET 20 OF 28

09/555529

WO 99/29845

PCT/FR98/02667

20/28

A

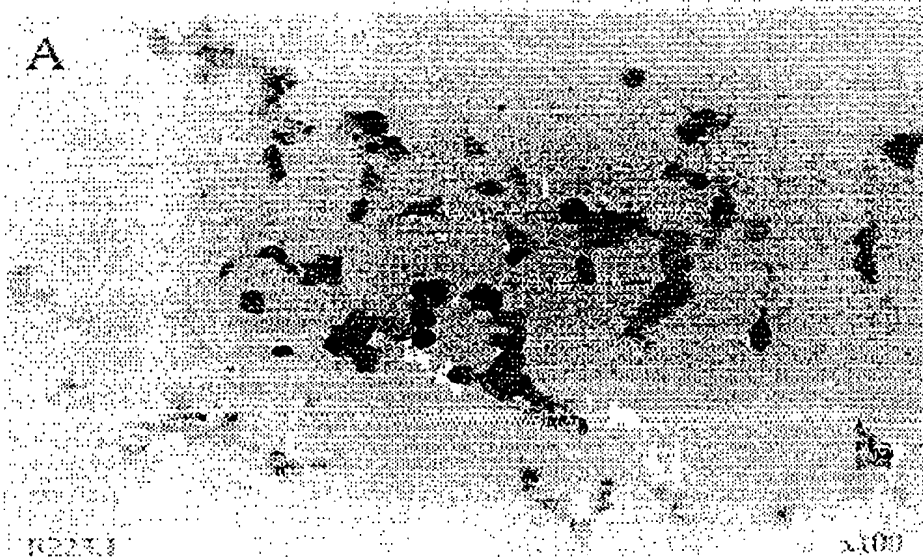
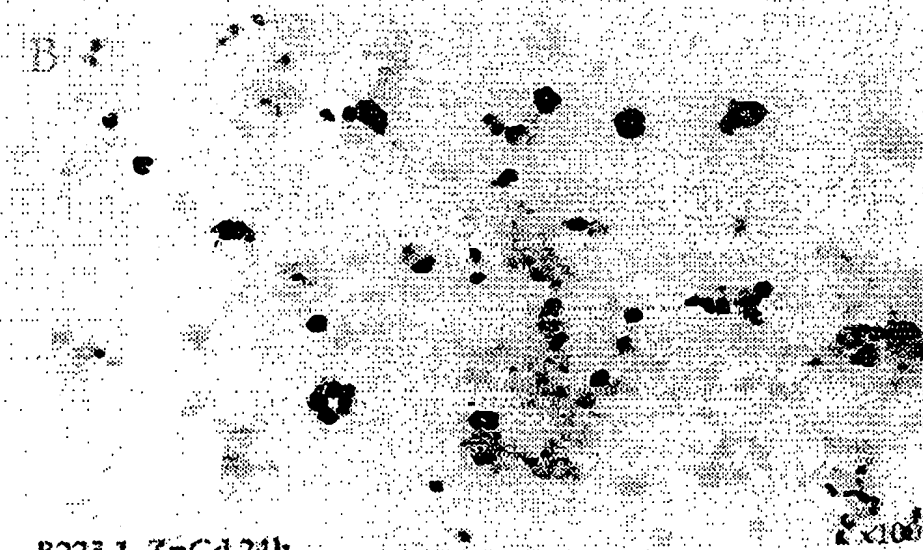


FIGURE 13A

B



B223.1, ZnCd 24h

FIGURE 13B

REPLACEMENT SHEET (RULE 26)

004240" 6255560

OBLON ET AL (703) 413-3000

DOCKET #192863450 PCT SHEET 21 OF 28

09/555529

WO 99/29845

PCT/FR98/02667

21/28

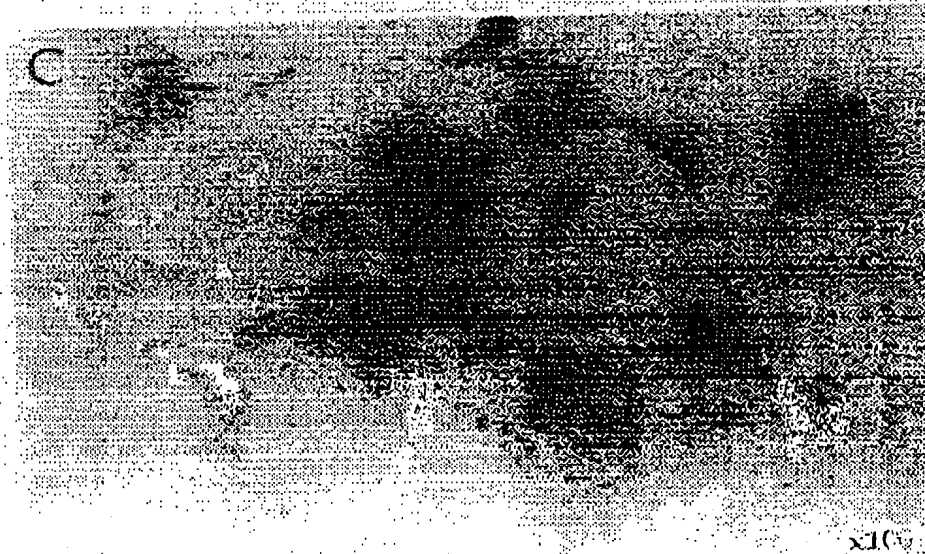


FIGURE 13C

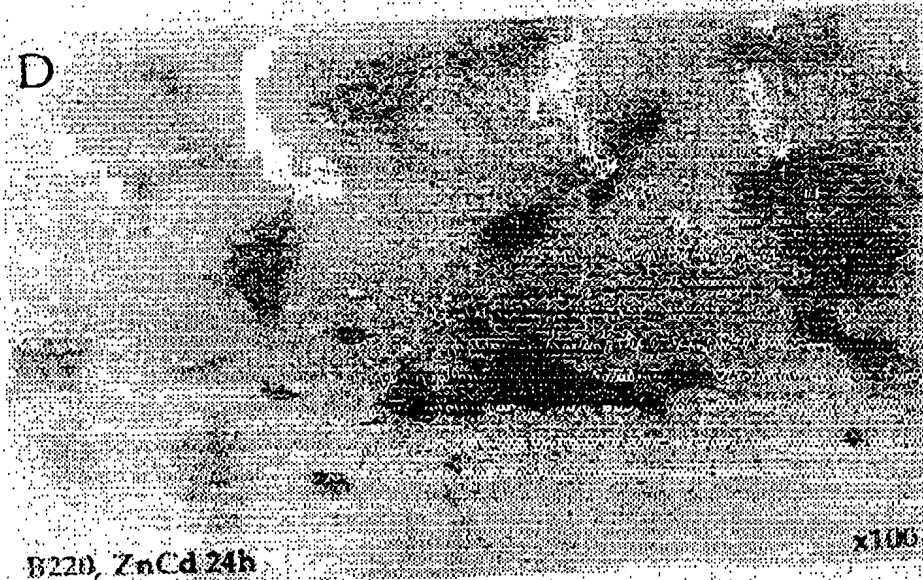


FIGURE 13D

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OBLON ET AL (703) 413-3000

DOCKET # 192863480RTSHEET 22 OF 2

09/555529

WO 99/29845

PCT/FR98/02667

22 / 23

FIGURE 14B

x1000

x1260

FIGURE 14D

FIGURE 14A

B

D

FIGURE 14C

A

x504

C

x1000

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

DOCKET #192863 US PCT SHEET 23 OF 26

09/555529

WO 99/29845

PCT/FR98/02667

23/26

x1260

FIGURE 14F

FIGURE 14E

x2000

REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

— ZnCd

+ ZnCd

Cells

B220

Cells

B223.1

Cells

B223.2

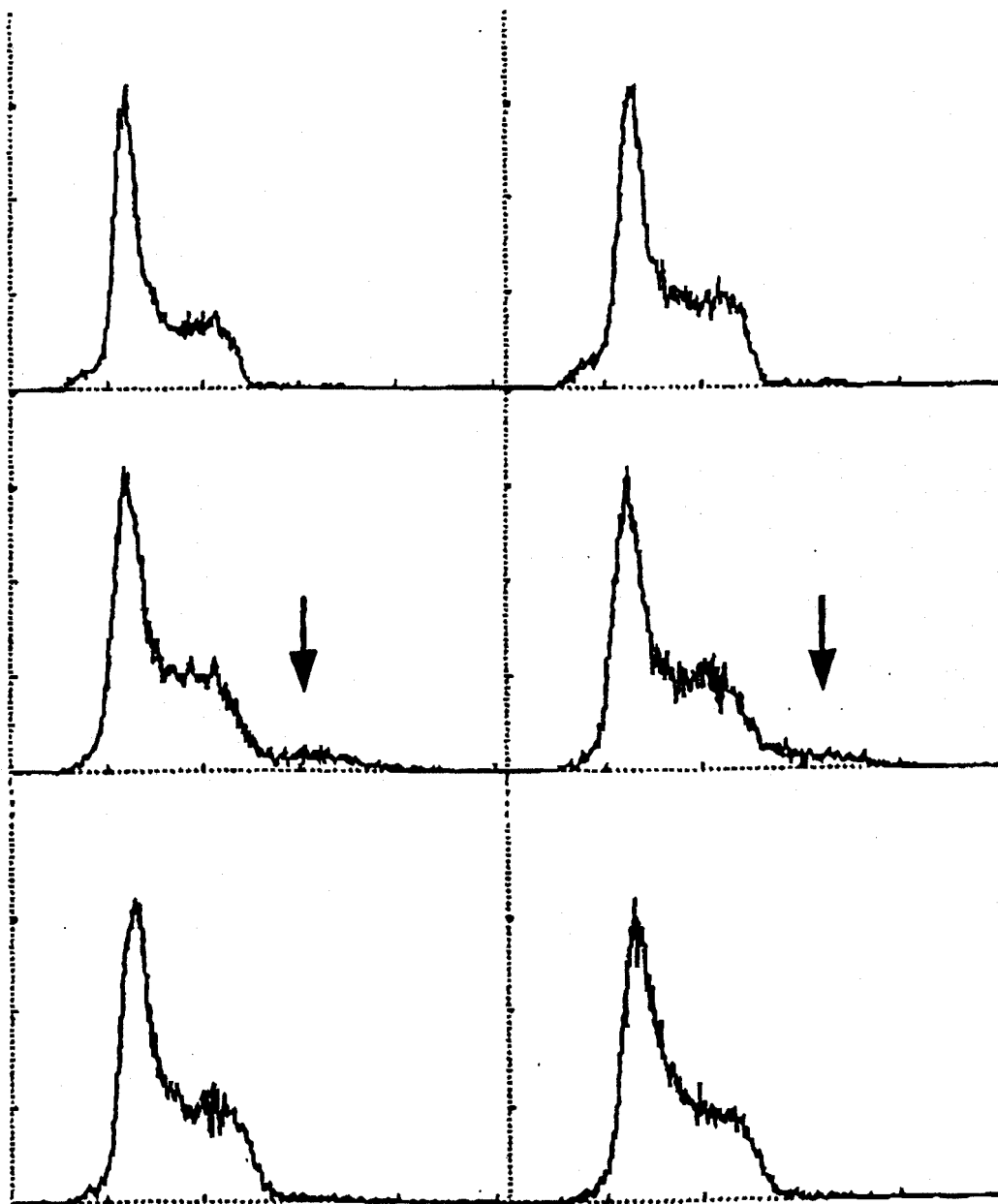


FIGURE 15

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004240" 6255560

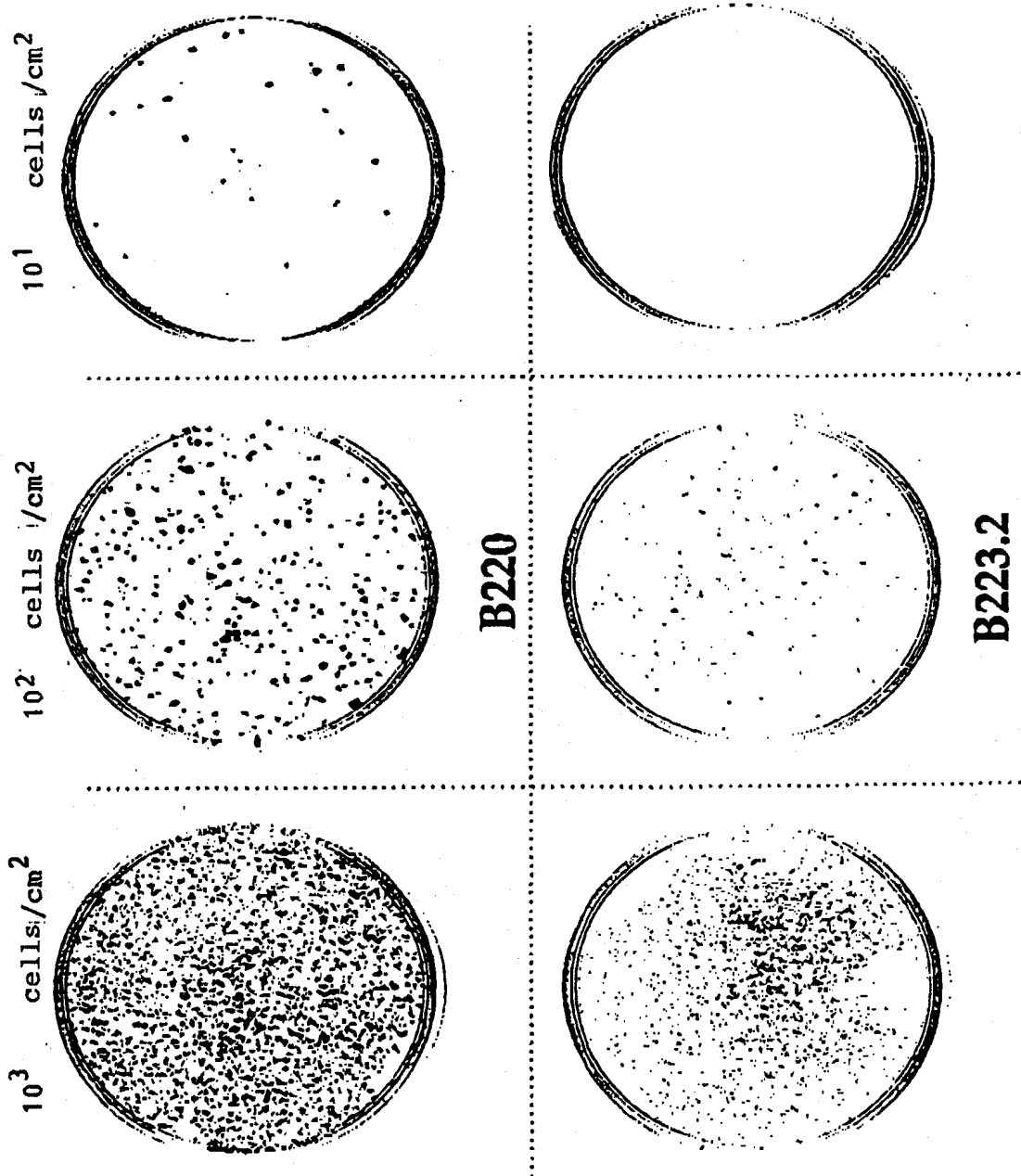


FIGURE 16

OBLON ET AL (703) 413-3000

DOCKET # 192863 450 PCT SHEET 26 OF 2

09/555529

WO 99/29845

PCT/FR98/02667

26./28

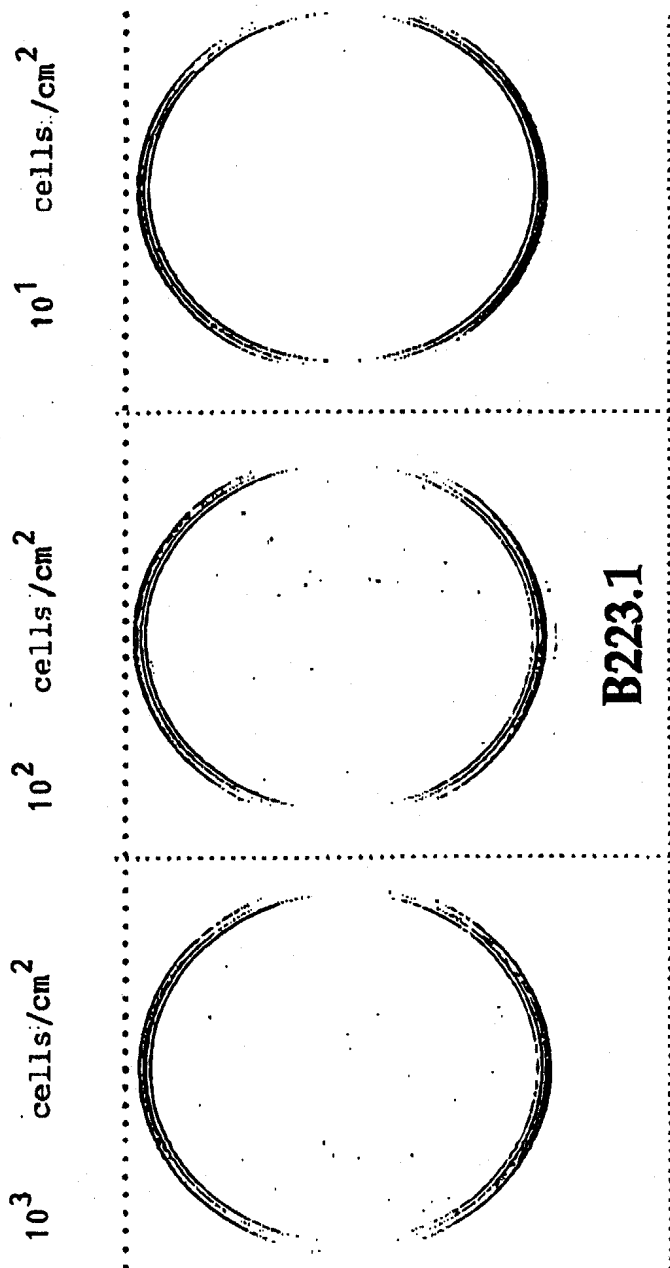


FIGURE 16 (continued)

004220-62555560

OBLON ET AL (703) 413-3000

DOCKET #192863450 PCT SHEET 27 OF 28

09/555529

WO 99/29845

PCT/FR98/02667

27/28

FIGURE 17A

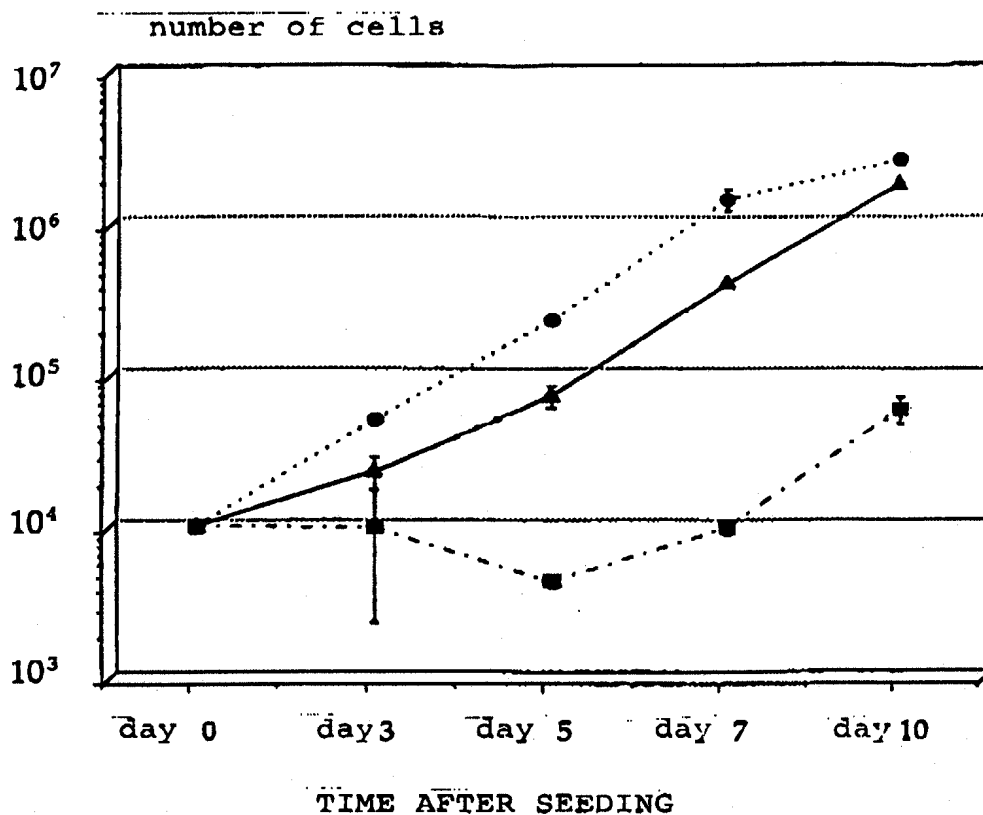
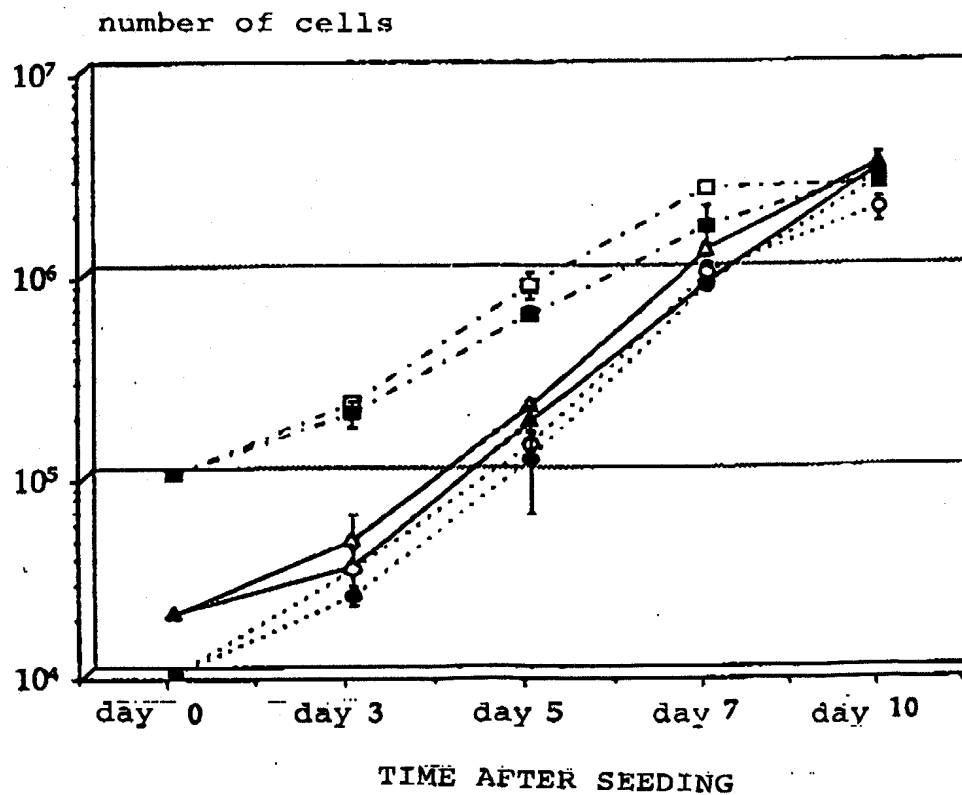


FIGURE 17B



REPLACEMENT SHEET (RULE 26)

Received Time Jun. 6. 10:01AM

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OBLON ET AL (703) 413-3000

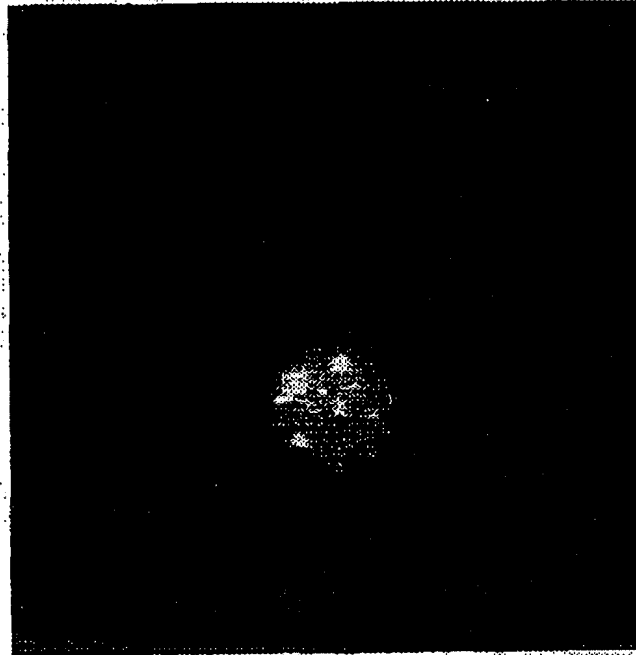
DOCKET # 19286345 OPI SHEET 28 OF 28

09/555529

WO 99/29845

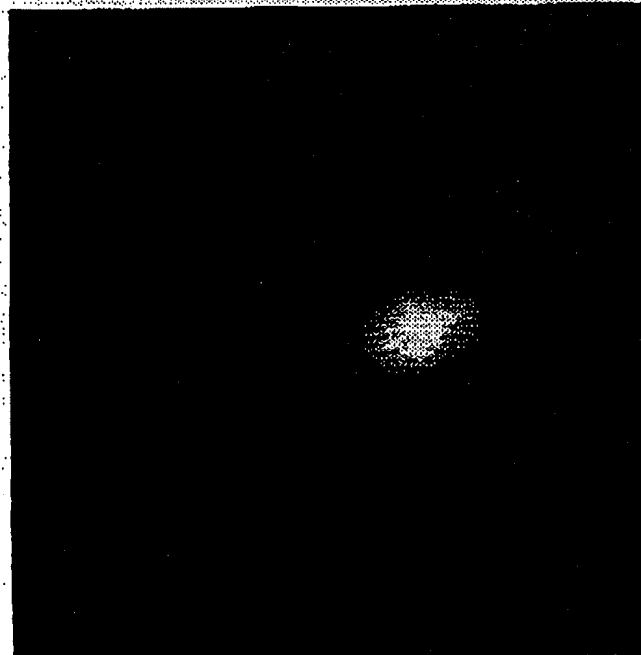
PCT/FR98/02667

28/28



GFPkin17NLS-CT

FIGURE 18B



GFPkin17DCT

FIGURE 18A

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Received Time Jun. 6. 10:01AM

09555529-07400